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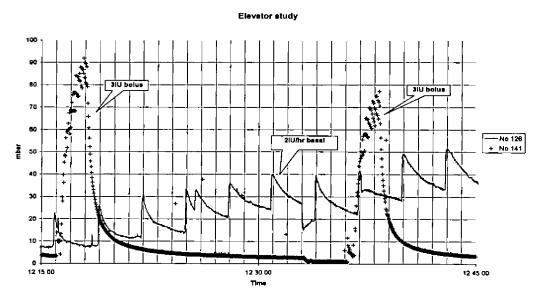
with international search report

(88) Date of publication of the international search report:

1 February 2007

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: MEDICAL DEVICE ADAPTED TO DETECT DISENGAGEMENT OF A TRANSCUTANEOUS DEVICE



(57) Abstract: The present invention provides a medical device comprising a transcutaneous device. The medical device further comprises a controller for detecting a first condition representative of the transcutaneous device being arranged in a subcutaneous first position, and for detecting a second condition representative of the transcutaneous device being arranged in a non-subcutaneous second position, wherein the controller is adapted for actuating an alarm when a condition representative of the transcutaneous device being arranged in a non-sub-cutaneous position is detected.

INTERNATIONAL SEARCH REPORT

International application No PCT/EP2006/062301

			101/212000/002301			
A. CLASSI INV.	ification of subject matter A61M5/168 A61M5/142					
According to	o international Patent Classification (IPC) or to both national class	ification and IPC				
	SEARCHED					
Minimum do A61M	ocumentation searched (classification system followed by classific	cation symbols)				
	tion searched other than minimum documentation to the extent th					
Electronic d	data base consulted during the international search (name of date ternal	base and, where practica	l, search terms used)			
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where appropriate, of the	relevant passages	Relevant to claim No.			
х	US 2003/009131 A1 (VAN ANTWERP ET AL) 9 January 2003 (2003-01- paragraph [0076]; figures 2a-3b	09)	1-19			
A	WO 2005/025652 A (ADVANCED CARD SYSTEMS, INC; BEYERLEIN, DAGMAR 24 March 2005 (2005-03-24) the whole document	5-8				
А	US 4 877 034 A (ATKINS ET AL) 31 October 1989 (1989-10-31) the whole document		1			
А	US 4 399 824 A (DAVIDSON ET AL) 23 August 1983 (1983-08-23) the whole document		1			
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X Furt	ther documents are listed in the continuation of Box C.	X See patent fa	mily annex.			
* Special o	categories of cited documents :	"T" later document pul	olished after the international filing date			
consid "E" earlier of filing o	dered to be of particular relevance document but published on or after the international date	invention "X" document of partic cannot be consid	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to			
which citatio "O" docum	ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another in or other special reason (as specified) lent referring to an oral disclosure, use, exhibition or	"Y" document of partic cannot be consid document is com	ive step when the document is taken alone ular relevance; the claimed invention ered to involve an inventive step when the bined with one or more other such docu—			
other	means ent published prior to the international filling date but han the priority date claimed	in the art.	ments, such combination being obvious to a person skilled in the art. "&" document member of the same patent family			
Date of the	actual completion of the international search	Date of malling of	the international search report			
1	9 October 2006	02/11/2	2006			
Name and r	malling address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer	•			
	NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fay: (431–70) 340–3016	Ceccare	elli, David			

INTERNATIONAL SEARCH REPORT

International application No PCT/EP2006/062301

		<u> </u>	002301
C(Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	R	elevant to claim No.
A	WO 2005/039673 A (NOVO NORDISK A/S; NIELSEN, OLE, CHRISTIAN; RADMER, JIM; PREUTHUN, JAN,) 6 May 2005 (2005-05-06) the whole document	-	1-19, 31-34
E	WO 2006/067217 A (NOVO NORDISK A/S; WILLERUP, THERESA, RHOADES; KLITGAARD, PETER, CHRIST) 29 June 2006 (2006-06-29) the whole document		1-19, 31-34
Υ	US 6 485 461 B1 (MASON DUANE R ET AL) 26 November 2002 (2002-11-26) column 4, lines 18-21		31-34
Υ	CA 2 239 457 A1 (VELOCE, FRANK) 3 December 1999 (1999-12-03) the whole document		31-34
Α	WO 02/40083 A (INSULET CORPORATION) 23 May 2002 (2002-05-23) paragraph [0084]; figures 9-12		31-34
			

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.1

Claims Nos.: 20-27

Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy and surgery. Arranging a transutaneous device subcutaneously in a subject is a surgical step; expelling fluid drug is clearly a therapeutical step. A computer-implemented surgical or therapeutical method is also considered to fall under the exclusion of Rule 39.1 (iv) PCT.

International application No. PCT/EP2006/062301

INTERNATIONAL SEARCH REPORT

Box II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. χ	Claims Nos.: 20-27 because they relate to subject matter not required to be searched by this Authority, namely: see FURTHER INFORMATION sheet PCT/ISA/210
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
з.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Inte	rnational Searching Authority found multiple inventions in this international application, as follows:
	see additional sheet
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
з. 🛛	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.: $1-19,31-34$
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; It is covered by claims Nos.:
Remark (The additional search fees were accompanied by the applicant's protest. X No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-19

A drug delivery device with a reservoir, an expelling assembly and a controller for detecting two conditions of a trancutaneous device.

2. claims: 28-30

A medical device comprising a transcutaneous device and a controller for detecting two conditions of the transcutaneous device.

3. claims: 31-34

A medical device with a mounting surface for application towards a skin of a subject and a transutaneous device with a visual marking on its distal portion.

4. claims: 35-41

A medical device with a mounting surface for application towards a skin of a subject, a first and a second electrode.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/EP2006/062301

						
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